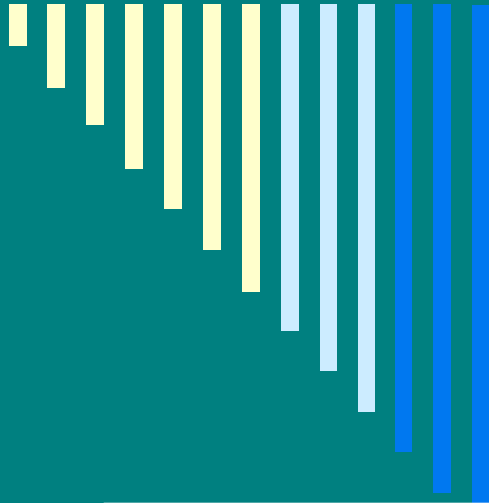


OEA Public Lecture 2007



Speaker: Victor Tan
Dept of Mathematics

Teaching + Technology – Fear
An Experience of a
Non-IT-Savvy **Maths Lecturer**



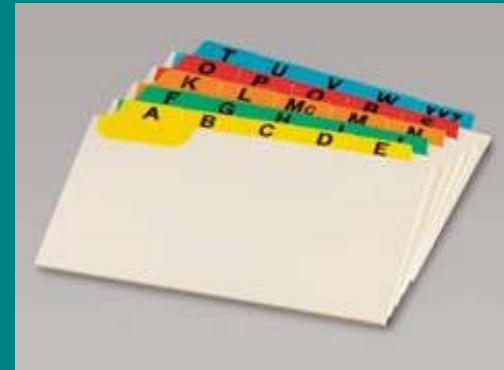
My OEA Thank-you Speech

- Dept of Mathematics
- FTEC
- UTEC
- CDTL and CIT
- My Family

My OEA Teaching Portfolio



Ring binders



Index card dividers



CD



Inside my Teaching Portfolio

A. Quality of Teaching I

- a. Learning outcomes
- b. Instructional methodologies
- c. Other means used
- d. Spread of modules taught
- e. Other channels of direct impact

B. Quality of Teaching II

- a. Contributions to curriculum development
- b. Contributions to the development of instructional materials
- c. Contributions to the improvement of teaching

C. Self-improvement

- a. Collecting feedback
- b. Responses to feedback
- c. Attendance at teaching workshops and conferences

D. Teaching awards and other recognition

- a. University level Teaching Awards
- b. Faculty level Teaching Awards
- c. Teaching Enhancement Grant
- d. Best conference paper award
- e. Student's achievement

E. Student feedback (AY2003/2004)

F. Student feedback (AY2004/2005)

G. Student feedback (AY2005/2006)

H. Supporting documents

J. Curriculum development (B.a)

K. Instructional materials (B.b)

L. Conference papers (B.c.i)

M. CDTL/CIT publications (B.c.ii)

N. Talks/Workshops (B.c.iii)

O. Graduate tutors' teaching training (B.c.iv)

P. Teaching related surveys (B.c.v)

Q. Outreach and enrichment programs (B.c.vi)

R. SMO books editor (B.c.vii)

S. Collecting feedback (C.a)

T. Teaching enhancement grant (D.c)

U. Honours project supervision (A.e)

IT + commuting

Next bus will arrive in 3...2...1 minute

Pilot bus stop project gives real-time data on arrival times

By T. RAJAN

A PILOT project that gives commuters at selected bus stops a real-time "heads up" on arriving buses kicked off yesterday.

Commuters' pet peeves have included long waiting times during peak hours. The six-month trial is aimed at helping them manage their travel times by letting them know early when the bus is arriving.

The previously unveiled system uses wireless technology to inform commuters when the next two buses on a given service are arriving.

The data will be refreshed every minute, so that commuters will know which SBS Transit or SMRT buses are delayed by traffic jams or which are arriving early. The information is displayed on panels located inside bus shelters.

The pilot - called the Real-Time Bus Arrival System - began yesterday at 20 bus stops in Orchard Road, five in Ang Mo Kio and five in Yishun.

After the six-month trial, the Land Transport Authority (LTA) will decide whether to install panels at other bus stops.

Transport Minister Raymond Lim yesterday inspected two panels - at the Delfi Orchard bus stop, and the Le Mer-



TIMELY MEASURE: Panels at bus stops will inform commuters when the next two buses on any given service are expected to arrive, and the information will be updated every minute. PHOTO: LTA

time of commuters. The provision of real-time bus arrival systems and key bus service maps will help commuters to better plan their journeys and manage their waiting time.

Long waits for buses have consistently topped the list of commuter complaints. The bus arrival system is part of a project

worth above \$1 million, was awarded to French technology firm Steria, the same company responsible for the Expressway Monitoring Advisory System which tracks accidents and traffic flow on the expressways.

Undergraduate Norvin Cheng, who lives in Sengkang and works at a M&S

Iris fields around 20,000 bus-arrival inquiries daily

COMMUTERS have welcomed a new information system that makes it unnecessary to spend long waiting times at bus stops.

Commuters have gone online to find out when their buses arrive. This works out to about 15,000 inquiries daily.

The AVMS tracks the location of a bus on a route. It also monitors

IT + dining

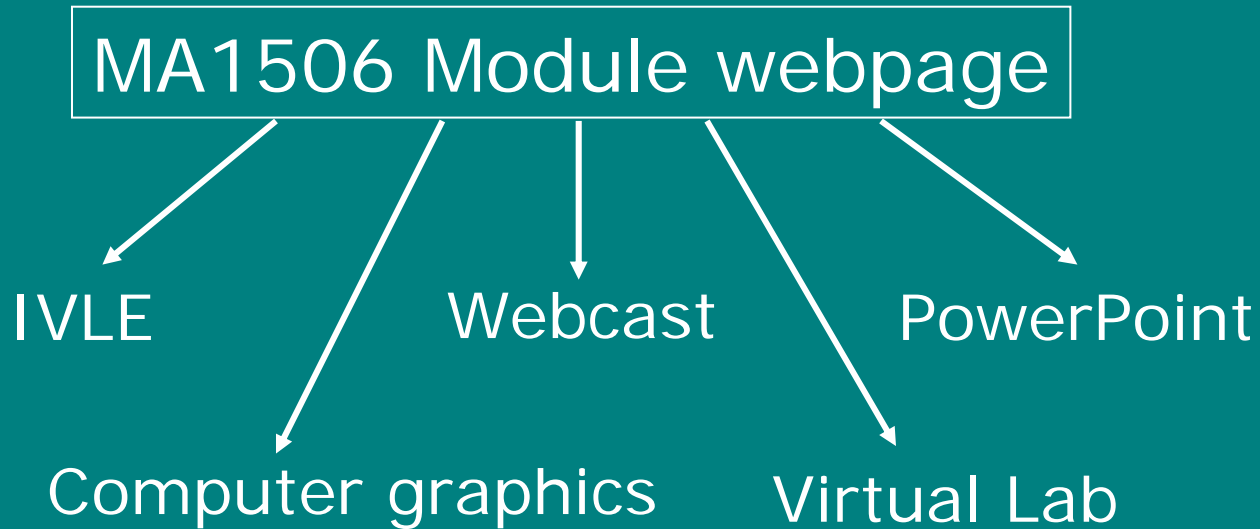


PHOTO: DESMOND LIM

GOING WIRELESS: Waiters at the popular Ng Ah Sio Pork Ribs Eating House use PDAs to take orders, which are then transmitted wirelessly to the kitchen.

Bak kut teh stall goes high-tech: Waiters take orders with PDAs

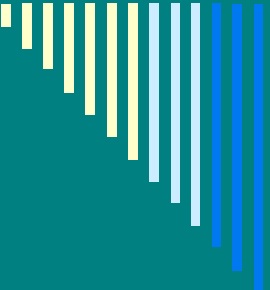
IT + Teaching



I am not IT-savvy

- ❑ I have not used an iPod
- ❑ I take 5 minutes to compose an SMS
- ❑ I love Microsoft Office
- ❑ I can't "un-hang" my PC
- ❑ I know Greek more than Java language





Teaching + IT (Why ?)

- Engage students
- Enhance learning outcome
- Facilitate self-learning
- Facilitate communication
- Facilitate feedback collection



Teaching – IT (Why ?)

- Don't believe in IT
- Time consuming
- Not IT-savvy
- Steep learning curve
- Unreliable technology



Simple ways of Teaching + IT

- IVLE
- Webcast
- PowerPoint
- Internet
- Software
- Multimedia
- Blogs



IVLE

- Announcement
- Workbin
- Discussion Forum
- Assessment (a.k.a. Online Quiz)
- Polls & Survey



IVLE: Discussion forum

- Instructor's involvement
 - Interact with students
 - Keep track of students' discussion
 - Post additional problems
- Forum ≠ Q&A session



IVLE: Online Quiz

- ❑ Self or graded assessments
- ❑ Time consuming
- ❑ Easy to generate results
- ❑ Timely feedback on students' performance
- ❑ Build question banks



IVLE: Polls & Survey

- Supplement the Teaching Evaluation
- Time consuming
- Timely feedback
- Customized questionnaire
- Generic comments



Webcast

- For students who miss certain part or a whole lecture.
- For students who want to review the lectures.
- For slower learners.



Webcast (Why not ?)

- ❑ Complicated
- ❑ Camera Shy
- ❑ Caught-on-tape
- ❑ Affect class attendance
- ❑ Quality of recording not good

New software: Apresso Webcast (Demo)

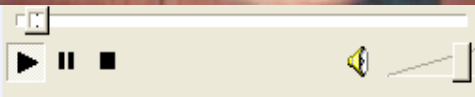
IVLE Webcast Lectures - Microsoft Internet Explorer



Webcast Lecture: MA1506

FEEDBACK | HELP | CLOSE

[Click here to view webcast lectures](#)



1. Overview

Playing 02:09 / 48:20

- [Discussion Forum](#)
- [View Slides](#)
- [Full Screen](#)
- [Statistics](#)
- [Webcast Survey](#)

MA1506-MATHEMATICS II - Lecture Session 7

TAN, VICTOR
Tuesday, 27 Jan 2004, 02:00:00 PM

Overview

- 2.4 Directional derivatives
- 2.5 Gradient vectors

f_x measures the rate of change of f **along the x-axis**

f_y measures the rate of change of f **along the y-axis**

What about rate of change along **any given direction**?



PowerPoint (Why not ?)

- Anti-Microsoft
- Not conducive
- Time consuming



PowerPoint

- Engage students better
- Helps in visualization
- Enrich the lessons



CDTL Workshops

- How to use IVLE
- How to create webpages
- How to bring the power out of PowerPoint
- Many more

Concluding Remarks

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The previously installed system uses wireless technology to send text messages when the next two buses on a given service are arriving.

The data will be refreshed every minute, so that commuters will know when SBS Transit or SMRT buses are delayed by traffic jams or which are arriving early. The information is displayed on panels located inside the bus stop.

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Transport Minister Raymond Lim yesterday requested two panels - at the Dull Orchard bus stop and the La Madeline bus stop.

The pilot is worth \$1 million, was awarded to French technology firm Sotix, the same company responsible for the Expressway Monitoring Advisory System which tracks accidents and traffic flow on the expressways.

Lim said the system will help commuters have more control over their travel times. The system will also help commuters find out when their buses arrive. This works out to about 13,000 commuters a day.

The AVMS tracks the location of a bus on the road. It also displays the arrival time of the next two buses on any given service are expected to arrive, and the information will be updated every minute.

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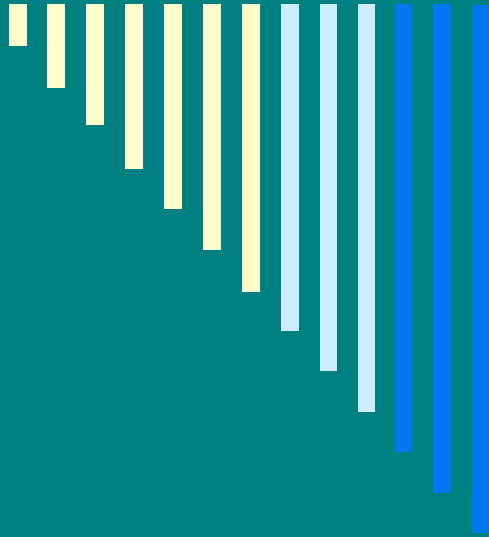
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Bak kut teh stall goes high-tech: Waiters take orders with PDAs

Teaching + IT – Fear

Use IT in the right way

Use IT in an effective way



Thank You

Enjoy your Teaching!
